# Product data sheet

Specifications





# Contactor, TeSys Deca, 4P(4NO),AC-3/AC-3e/, <=440V, 40A,110V AC 50/60Hz coil, screw clamp terminal

LC1D65004F7

#### Main

Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
contactor application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
poles description	4P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz
[le] rated operational current	80 A (at <140.000000000 °F (60 °C)) AC AC-1 for power circuit
[Uc] control circuit voltage	110 V AC 50/60 Hz

#### Complementary

Motor power hp	10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA 10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL 20 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to CSA 20 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to UL 20 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to CSA 20 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to UL 5 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA 5 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL
	50 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to CL 50 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to UL 50 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to UL 50 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to UL
Compatibility code	LC1D
Pole contact composition	4 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140.000000000 °F (60 °C)) for control circuit 80 A (at 140.0000000000 °F (60 °C)) for power circuit
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 2 for power circuit 160 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	1 mOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole	6.4 W AC-1

[Ui] rated insulation voltage	Control circuit 600 V CSA
	Control circuit 600 V UL
	Power circuit 600 V CSA
	Power circuit 600 V UL Control circuit 690 V IEC 60947-1
	Power circuit 690 V IEC 60947-1
Overvoltage category	III
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	6000000 cycles
Control circuit type	AC 50/60 Hz standard
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.30.6 Uc 140.0000000000 °F (60 °C) drop-out AC 50/60 Hz
	0.81.1 Uc 140.0000000000 °F (60 °C) operational AC 50 Hz
	0.851.1 Uc 140.0000000000 °F (60 °C) operational AC 60 Hz
Inrush power in VA	140 VA cos phi 0.75 (at 68.000000000 °F (20 °C))
	160 VA cos phi 0.75 (at 68.0000000000 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C))
· · · · · · · · · · · · · · · · · · ·	15 VA 50 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C))
Heat dissipation	45 W at 50/60 Hz for control circuit
Operating time	1226 ms closing 419 ms opening
Maximum operating rate	3600 cyc/h 140.0000000000 °F (60 °C)
Connections - terminals	Control circuit: screw clamp terminal 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:
	solid without cable end
	Control circuit: screw clamp terminal 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:
	flexible without cable end Control circuit: screw clamp terminal 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:
	solid without cable end
	Power circuit: screw clamp terminal 1 0.0020.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness:
	solid without cable end
	Power circuit: screw clamp terminal 2 0.0020.04 in² (125 mm²) - cable stiffness:
	solid without cable end
	Power circuit: screw clamp terminal 2 0.0020.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness: solid without cable end
Tightening torque	
nginoning torque	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal flat Ø 6 mm
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Auxiliary contacts type	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal Philips No 2 Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 8 mm
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Auxiliary contacts type Minimum switching voltage	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal Philips No 2 Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 8 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal pozidriv No 2 Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 17 V for control circuit
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Auxiliary contacts type Minimum switching voltage Minimum switching current Insulation resistance	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal Philips No 2 Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat Ø 8 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminal pozidriv No 2 Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 17 V for control circuit 5 mA for control circuit > 10 MOhm for control circuit
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## Environment

Standards	IEC 60947-5-1
	EN 60947-4-1
	EN 60947-5-1
	UL 508
	IEC 60947-4-1
	CSA C22.2 No 14
Product certifications	CCC
	BV
	DNV
	UL
	GL
	CSA
	LROS (Lloyds register of shipping)
	RINA
	GOST
	UKCA
IP degree of protection	IP2X IEC 60529
	IP2X VDE 0106
Protective treatment	TH 3)IEC 60068
Permissible ambient air	23.000000000140.000000000 °F (-560 °C)
temperature around the device	-40.000000000 � � � 158.0000000000 °F (-4070 °C) at Uc
Operating altitude	3000 m without derating
Fire resistance	1562.000000000 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 UL 94
Mechanical robustness	Shocks contactor open 8 Gn for 11 ms)
	Shocks contactor closed 10 Gn for 11 ms)
	Vibrations contactor opened 2 Gn, 5300 Hz)
	Vibrations contactor opened 2 Gin, 5300 Hz)
Height	5.000000000 in (127 mm)
Width	3.3 in (85 mm)
Depth	5.1 in (130 mm)
Net weight	3.17 lb(US) (1.44 kg)

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.0 in (15.2 cm)
Package 1 Width	5.2 in (13.2 cm)
Package 1 Length	4.3 in (10.8 cm)
Package 1 Weight	3.245 lb(US) (1.472 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	17.229 lb(US) (7.815 kg)

#### **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations